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Corrigendum for: "Oomycete-specific ITS primers for identification and metabarcoding" published in MycoKeys, doi: 10.3897/mycokeys.14.9244

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The oomycete-specific ITS primers published by Riit et al. (2016) have been put to use in the scientific community working with oomycetes. Recently, however, it has been brought to our attention that the sequences of the primers ITS1oo and ITS3oo shown in the first Figure of the published manuscript are incomplete, when compared to the sequences of the same primers as listed on the UNITE website. This discrepancy is derived from re-checking primer sequences from tube labels that are restricted to the first 18 bases.

Closer examination revealed that the sequence of primer ITS1oo in Figure 1 is missing one nucleotide from the 3' end and the primer ITS3oo is missing two nucleotides from the 3' end. These errors are expected to reduce relative primer specificity to Oomycetes, which probably results in a lower proportion of this group in metabarcoding studies. We hereby provide the updated figure (Figure 1) with correct information. We apologise to all users of these erroneous primers for their suboptimal performance. We are grateful to Dr. Diana Marčiulynienė and Dr. Sannakajsa Velmala for identifying these problems.

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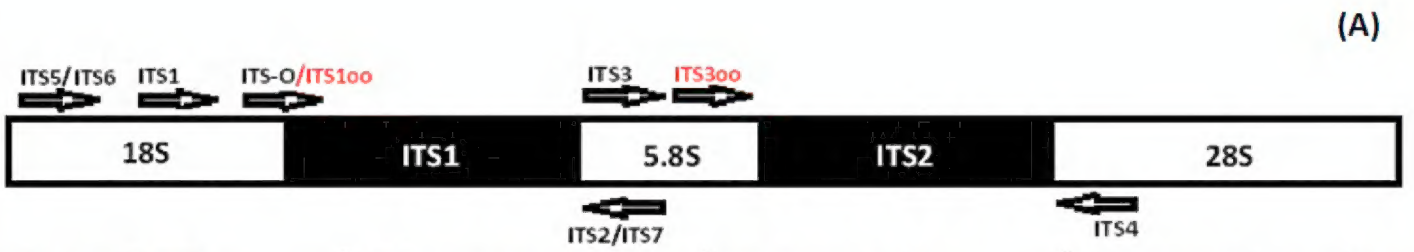

ITS1oo (5'-3') ITS-O (Bachofer 2004)	Mismatching taxon (% accessions)	ITS3oo (5'-3')	Mismatching (B) taxon (% accessions)
-GGAAGGATCATTACCACAC		AGTATGYYTGTATCAGTGTC	
CGGAAGGATCATTACCAC--			
-	-	*********M**********	*Hyaloperonospora* (100%)
-	-	G**********G*******T	*Perofascia* (100%)
WD*****RNNNNNN	*Fungi*	R*C*Y***Y**TYG**Y**N	*Fungi*
*************RNNNNNA	*Plantae*	G*C*C*****CC*GG*Y**Y	*Plantae*
**************Y*RH**	Other *Stramenopiles*	**C********CKG*****Y	Other *Stramenopiles*
ITS6 (Cooke et al. 2000)		**ITS7 (Cooke et al. 2000)**	
GAAGGTGAAGTCGTAACAAGG		AGCGTTCTTCATCGATGTGC	
-	-	**************G*****	*Saprolegnia* (90%)
-	-	Y*Y*S***************	*Aphanomyces* (40%)
-	-	*****C***************	*Halophytophthora* (85%)
****TAA**********	*Fungi*	T****************CSA	*Fungi*
*****A**********	*Plantae*	TR***************CNA	*Plantae*
**********	Other *Stramenopiles*	T*************T****G	Other *Stramenopiles*

Figure 1. A Map of universal and oomycete-specific ITS region primers **B** Taxa with mismatches in the binding sites of primers ITS1oo and ITS3oo. Only taxa with 10% or more mismatching accessions are shown.

References

Bachofer M (2004) Molekularbiologische Populationsstudien an Plasmopara halstedii, dem Falschen Mehltau der Sonnenblume Dissertation, Universitat Hohenheim Germany, 1–140.

Cooke DEL, Drenth A, Duncan JM, Wagels G, Brasier CM (2000) A molecular phylogeny of Phytophthora and related oomycetes. Fungal Genetics and Biology 30: 17–32. https://doi.org/10.1006/fgbi.2000.1202

Riit T, Tedersoo L, Drenkhan R, Runno-Paurson E, Kokko H, Anslan S (2016) Oomycete- specific ITS primers for identification and metabarcoding. MycoKeys 14: 17–30. https://doi.org/10.3897/mycokeys.14.9244